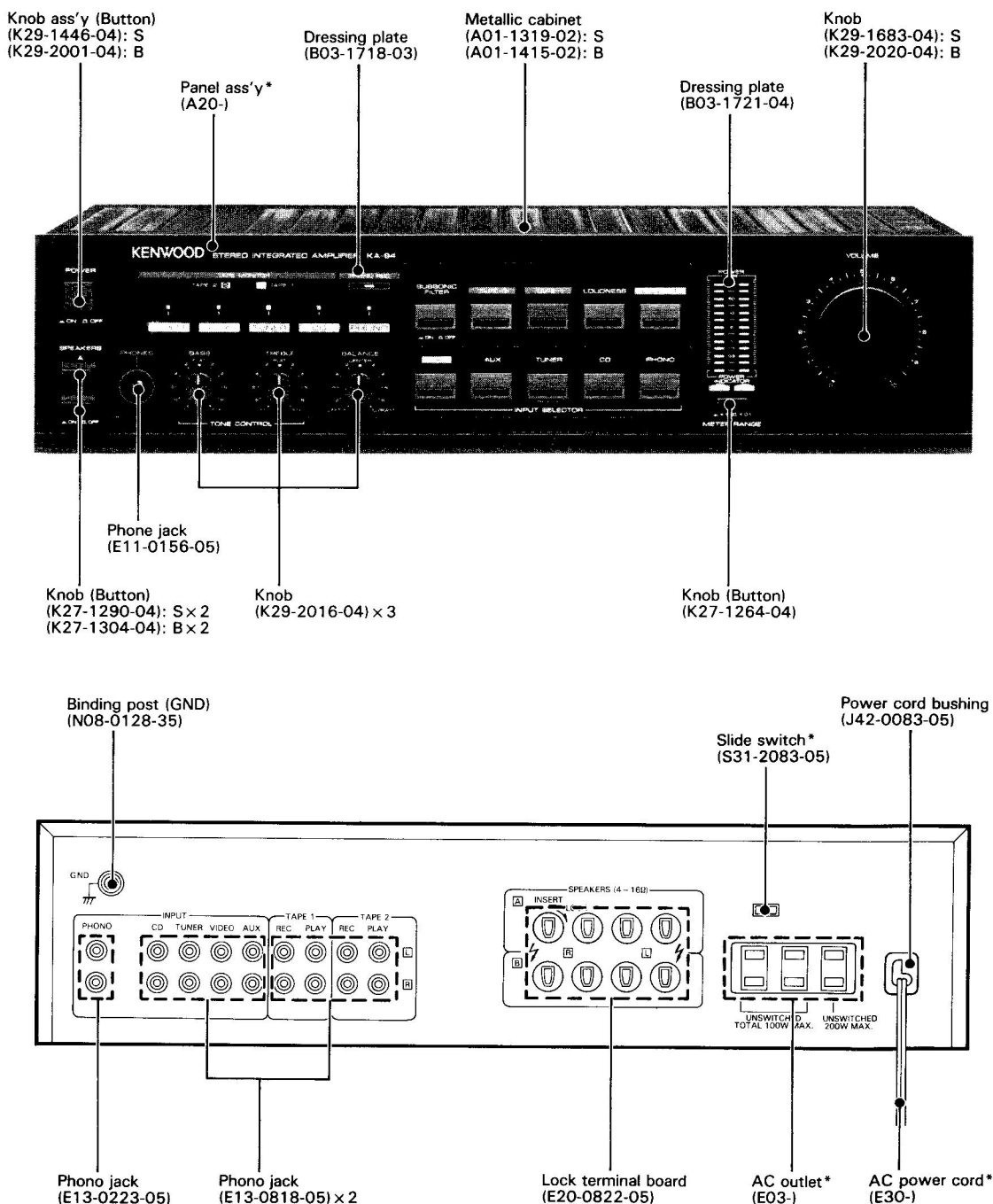


KENWOOD

KA-94

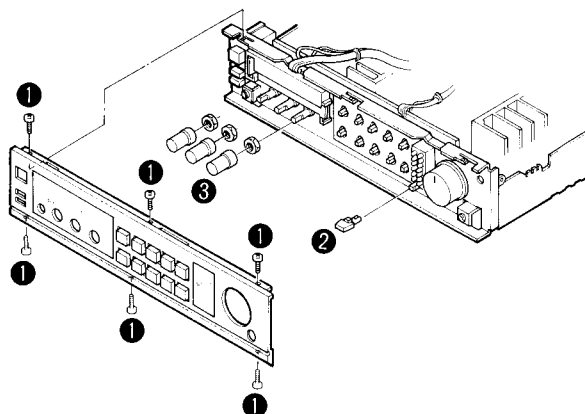
STEREO INTEGRATED AMPLIFIER



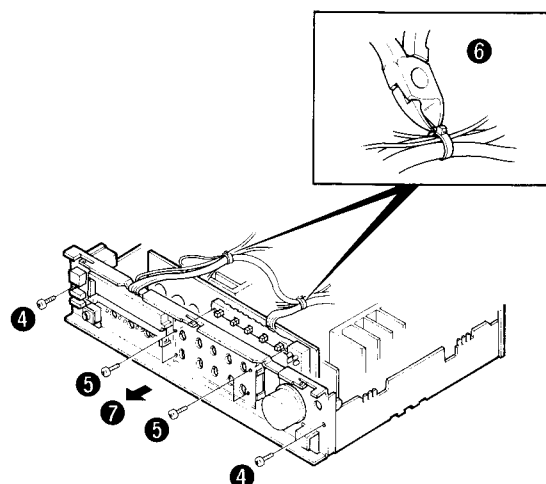
* Refer to Parts List on page 6.
 Photo is KA-94 (Black version).
 S: Silver version
 B: Black version

DISASSEMBLY FOR REPAIR

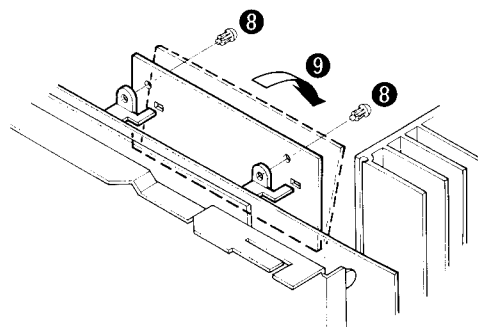
1. Remove the metallic case and remove 6 screws retaining the panel assembly (1).
2. Remove the panel assembly and pull off the BASS, TREBLE, BALANCE, METER RANGE knobs (2, 3).



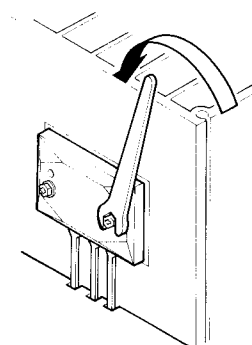
3. Remove 2 screws at the ends of the sub panel and 4 screws retaining the switches (4, 5).
4. Cut the wire bands bonding the lead wires with a wire cutter (6). Pull the sub panel frontward and then components on pc board can be replaced (7).



5. For repair of X07 (B/4) pc board, remove 2 push rivets and tilt it toward the rear (8, 9).

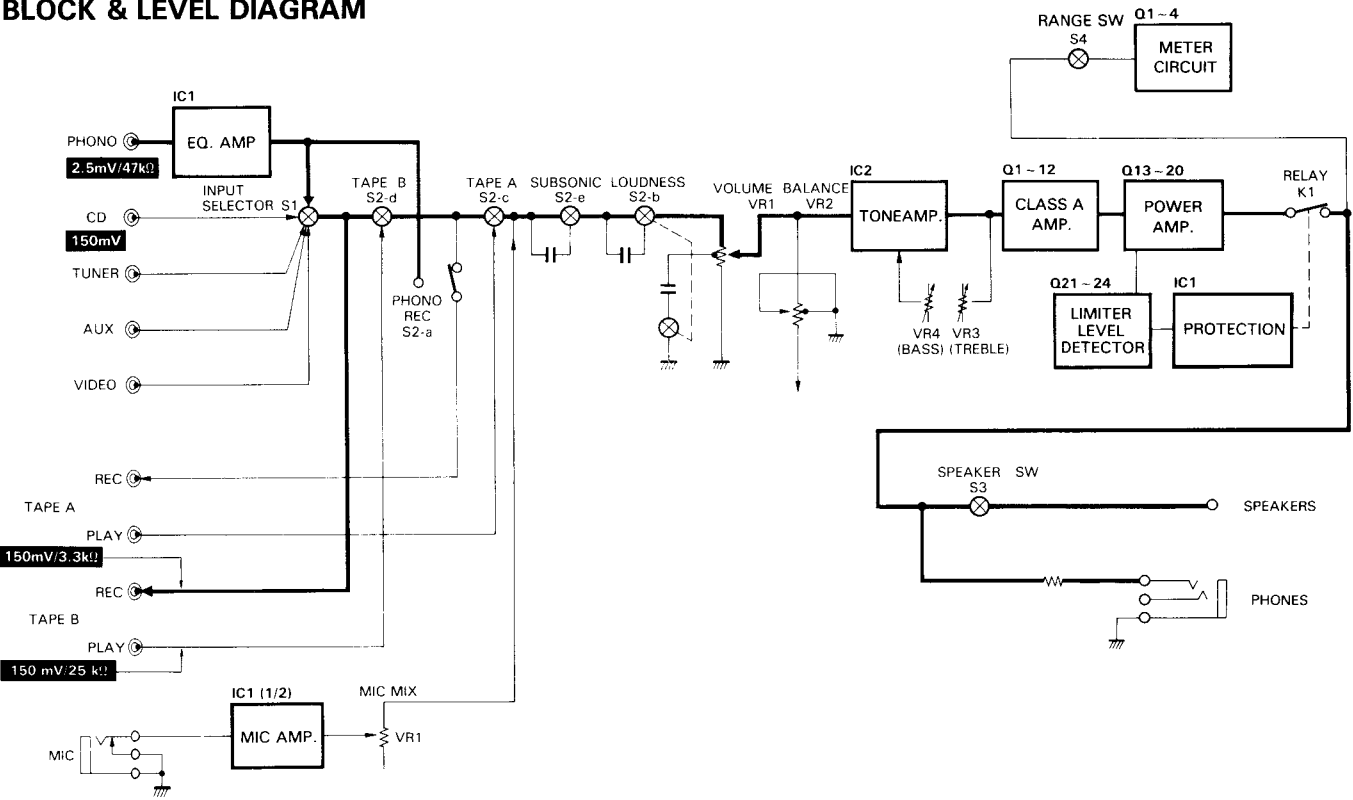


6. For replacement of power transistors, use a hex-wrench (W05-0022-00) (10).



BLOCK & LEVEL DIAGRAM/CIRCUIT DESCRIPTION

BLOCK & LEVEL DIAGRAM



CIRCUIT DESCRIPTION

Component function
Control unit (X11-2110-10)

Components	Functions	Operations
IC1	EQ amp	
IC2	TONE amp	
Q1 - Q4	Meter circuit	Rectifies the main amp output and is controlled by the range select switch.
Q5	AVR	For backlight lamp

Main amp unit (X07-2210-10)

Components	Functions	Operations
Q1 - Q4	1st stage differential amp	Class A amp
Q5 - Q8	2nd stage differential amp	Class A amp
Q9 - Q12	Class A amp	
Q13 - Q16	Driver amp	
Q17 - Q20	Power amp	
Q21 - Q24	Level detection	Operates as a current limiter for final protection in overload drive.
Q27	AVR	For Class A amp
Q38 - Q41	AVR	
Q43, Q44	BIAS amp	
IC1	Protection IC	Operates when amp malfunctions Relay OFF.

ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

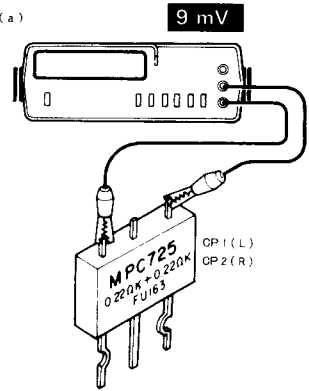
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Set the controls and switches as follows: POWER: ON SPEAKER: B							
1	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L) CP2 (R)	VOLUME: 0	VR1 (L) VR2 (R)	9mV	(a)

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINS L'ALIGNEMENT	ALIGNER POUR	FIG.
Régler les controles et les boutons comme suit: POWER: ON SPEAKER: B							
1	COURANT DE POLARISATION	—	Connecter un voltmètre de CC sur CP1 (G) CP2 (D)	VOLUME: 0	VR1 (G) VR2 (D)	9mV	(a)

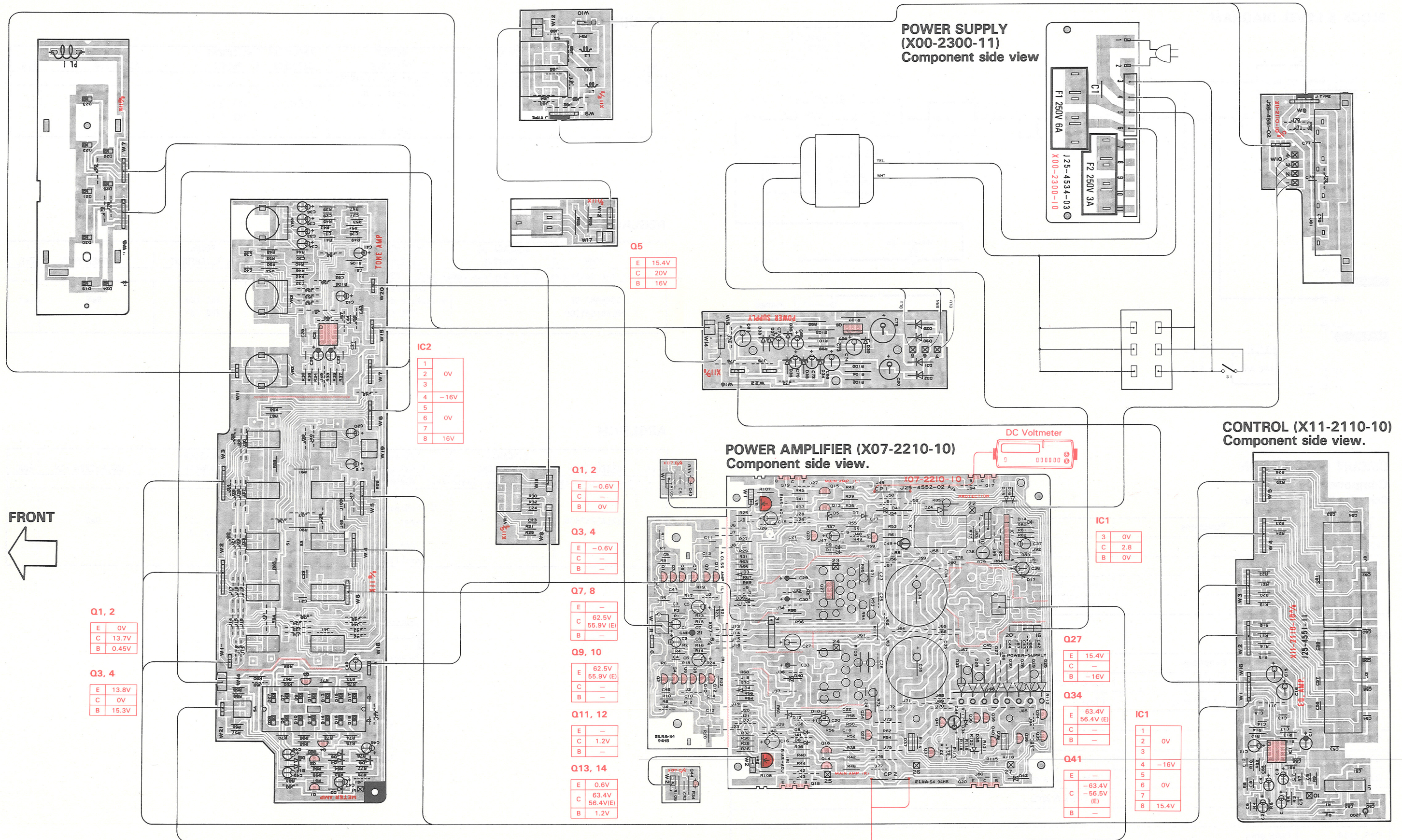
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	VORSTARKER EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
Die Regler und Knöpfe wird folgt einstellen: POWER: ON SPEAKER: B							
1	LEERLAUFSTROM	—	Einen Gleichspannungsmesser über CP1 (L) CP2 (R) anschließen	VOLUME: 0	VR1 (L) VR2 (R)	9mV	(a)



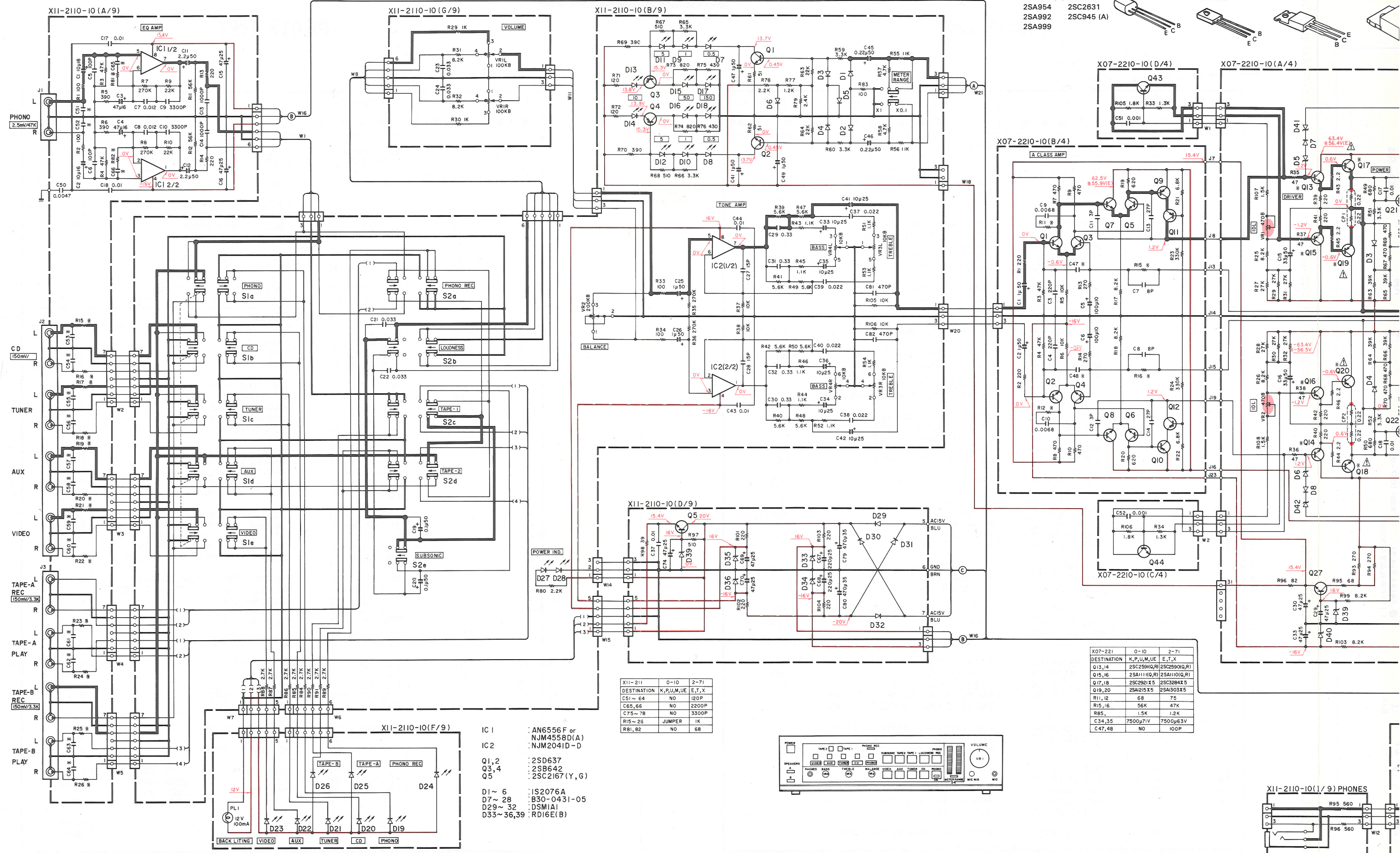
KA-94 KA-94

PC BOARD



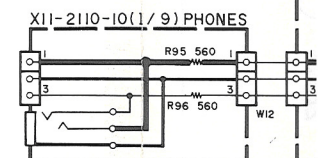
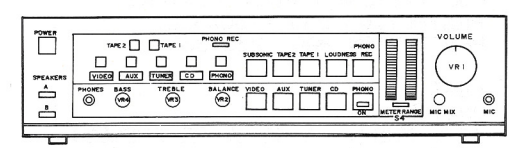
Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

1
2
3
4
5
6
7

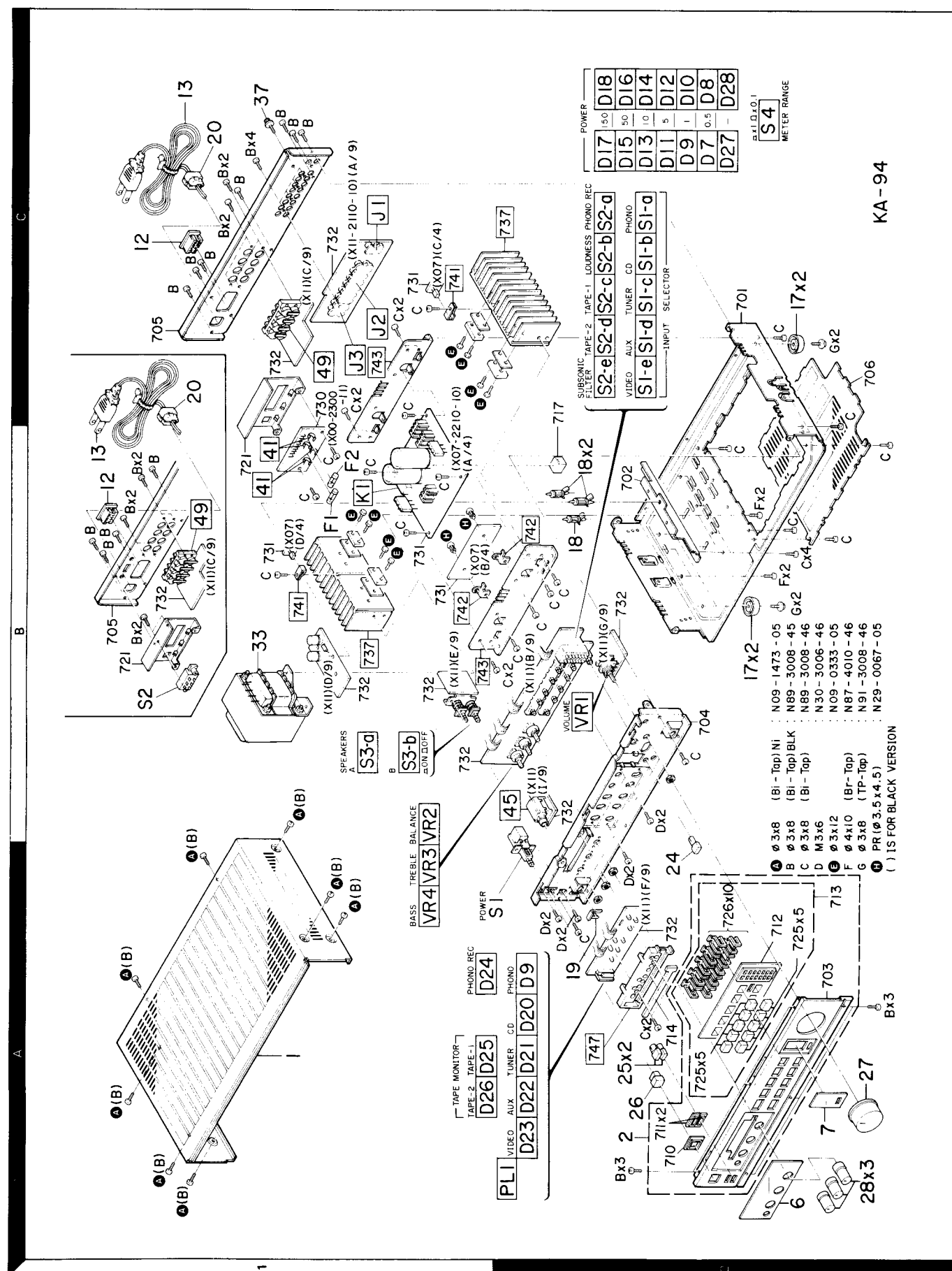


- 2SA1123 2SC2003 2SA1110 2SA1111 2SC2167
- 2SA733 (A) 2SC2320 2SC2590 2SC2591
- 2SA954 2SC2631
- 2SA992 2SC945 (A)
- 2SA999

X07-221	0-10	2-71
DESTINATION	K, P, U, M, E	E, T, X
Q13, 14	2SC2590(Q, R)	2SC2590(Q, R)
Q15, 16	2SA1111(Q, R)	2SA1110(Q, R)
Q17, 18	2SC2921(X, S)	2SC3284(X, S)
Q19, 20	2SA1215(X, S)	2SA1303(X, S)
R11, 12	68	75
R15, 16	56K	47K
R85	1.5K	1.2K
C34, 35	7500pF/1V	7500pF/3V
C47, 48	NO	100P



EXPLODED VIEW



PARTS LIST

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Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
KA-94 (Silver)						
1	1A		A01-1319-02	METALLIC CABINET		
2	2A	*	A20-4244-02	PANEL ASSY	KPUM	
2	2A	*	A20-4244-02	PANEL ASSY	UEXE	
2	2A	*	A20-4245-02	PANEL ASSY	T	
6	2A		B03-1718-03	DRESSING PLATE(TONE CONT.DISP)		
7	2A		B03-1721-04	DRESSING PLATE(METER RANGE)		
			B46-0092-03	WARRANTY CARD	K	
			B46-0094-03	WARRANTY CARD	UE	
			B46-0095-03	WARRANTY CARD	UE	
			B46-0096-03	WARRANTY CARD	X	
			B46-0121-03	WARRANTY CARD	P	
			B46-0122-13	WARRANTY CARD	E	
			B46-0123-03	WARRANTY CARD	T	
			B50-5535-00	INSTRUCTION MANUAL(ENGLISH)	KPUM	
			B50-5535-00	INSTRUCTION MANUAL(ENGLISH)	UEXE	
			B50-5536-00	INSTRUCTION MANUAL(FRENCH)	PMXE	
			B50-5537-00	INSTRUCTION MANUAL(SPANISH)	M	
			B50-5538-00	INSTRUCTION MANUAL(ARABIC)	M	
			B50-5539-00	INSTRUCTION MANUAL(ENGLISH)	T	
			B50-5540-00	INSTRUCTION MANUAL(G.D.I)	E	
			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
			B58-0245-33	CAUTION CARD (FTZ)	E	
			B58-0269-04	CAUTION CARD	K	
			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
			B59-0092-00	SERVICE DIRECTORY	UE	
Δ 12	1C		E03-0068-05	AC OUTLET	P	
Δ 12	1C		E03-0069-05	AC OUTLET	KUMUE	
Δ 13	1C		E30-0181-05	AC POWER CORD	K	
Δ 13	1C		E30-0459-05	AC POWER CORD	E	
Δ 13	1C		E30-0587-15	AC POWER CORD	T	
Δ 13	1C		E30-0812-05	AC POWER CORD	UMUE	
Δ 13	1C		E30-0974-05	AC POWER CORD	P	
Δ 13	1C		E30-1341-05	AC POWER CORD	X	
Δ F1	1C		F05-3121-05	FUSE (SEMKO) (250V T3.15A)	XTE	
Δ F1	1C		F05-6021-05	FUSE (250V 6A)	UMUE	
Δ F1	1C		F05-6027-05	FUSE (UL) (250V 6A)	KP	
Δ F2	1C		F05-3022-05	FUSE (250V 3A)	UMUE	
		*	H01-5349-04	ITEM CARTON CASE	KPUM	
		*	H01-5349-04	ITEM CARTON CASE	UEXE	
		*	H01-5350-04	ITEM CARTON CASE	T	
			H10-1788-04	POLYSTYRENE FOAMED FIXTURE		
			H10-1812-02	POLYSTYRENE FOAMED FIXTURE		
			H10-1813-02	POLYSTYRENE FOAMED FIXTURE		
			H25-0223-04	PROTECTION BAG (750X350)		
			H25-0232-04	PROTECTION BAG (235X350)		
17	2B,2C		J02-0161-04	FOOT		
18	2B		J19-0515-05	UNIT HOLDER		
19	2A,2B		J21-3326-05	JACK MOUNTING HARDWARE(PHONES)		
20	1C		J42-0083-05	POWER CORD BUSHING		
			J61-0307-05	WIRE BAND		
24	2A		K27-1264-04	KNOB (BUTTON) METER RANGE		

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

S: South Africa

T: England

U: PX(Far East, Hawaii)

UE: AAFES(Europe)

X: Australia

M: Other Areas

Δ indicates safety critical components.

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
25	2A		K27-1290-04	KNOB (BUTTON) SPEAKERS A/B		
26	2A		K29-1446-04	KNOB ASSY(BUTTON) POWER		
27	2A		K29-1683-04	KNOB VOLUME		
28	2A		K29-2016-04	KNOB BASS, TREBLE, BALANCE		
33	1B		L01-3961-05	POWER TRANSFORMER	KP	
33	1B		L01-3962-05	POWER TRANSFORMER	XT	
33	1B		L01-3965-05	POWER TRANSFORMER	UMUE	
33	1B		L01-3967-05	POWER TRANSFORMER	E	
37	1C		N08-0128-35	BINDING POST (GND)		
A	1A, 1B		N09-1473-05	TAPPING SCREW (M3X8)		
△ S1	1A		S40-1073-05	PUSH SWITCH (POWER)		
△ S2	1B		S31-2083-05	SLIDE SWITCH (POWER TYPE)	UMUE	
KA-94 (Black)						
1	1A	*	A01-1415-02	METALLIC CABINET		
2	2A	*	A20-4235-02	PANEL ASSY	KPUM	
2	2A	*	A20-4235-02	PANEL ASSY	UEXE	
2	2A	*	A20-4236-02	PANEL ASSY	T	
6	2A	*	B03-1718-03	DRESSING PLATE(TONE CONT. DISP)		
7	2A	*	B03-1721-04	DRESSING PLATE(METER RANGE)		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	UEUE	
-			B46-0095-03	WARRANTY CARD	UEUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0123-03	WARRANTY CARD	T	
-		*	B50-5535-00	INSTRUCTION MANUAL(ENGLISH)	KPUM	
-		*	B50-5535-00	INSTRUCTION MANUAL(ENGLISH)	UEXE	
-		*	B50-5536-00	INSTRUCTION MANUAL(FRENCH)	PMXE	
-		*	B50-5537-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B50-5538-00	INSTRUCTION MANUAL(ARABIC)	M	
-		*	B50-5539-00	INSTRUCTION MANUAL(ENGLISH)	T	
-		*	B50-5540-00	INSTRUCTION MANUAL(G,D,I)	E	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0245-33	CAUTION CARD (FTZ)	E	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
-			B59-0092-00	SERVICE DIRECTORY	UEUE	
△ 12	1C		E03-0068-05	AC OUTLET	P	
△ 12	1C		E03-0069-05	AC OUTLET	KUMUE	
△ 13	1C		E30-0181-05	AC POWER CORD	K	
△ 13	1C		E30-0459-05	AC POWER CORD	E	
△ 13	1C		E30-0587-15	AC POWER CORD	T	
△ 13	1C		E30-0812-05	AC POWER CORD	UMUE	
△ 13	1C		E30-0974-05	AC POWER CORD	P	
△ 13	1C		E30-1341-05	AC POWER CORD	X	
△ F1	1C		F05-3121-05	FUSE (SEMKO) (250V T3.15A)	XTE	
△ F1	1C		F05-6021-05	FUSE (250V 6A)	UMUE	
△ F1	1C		F05-6027-05	FUSE (UL) (250V 6A)	KP	
△ F2	1C		F05-3022-05	FUSE (250V 3A)	UMUE	
-		*	H01-5343-04	ITEM CARTON CASE	KPUM	
-		*	H01-5343-04	ITEM CARTON CASE	UEXE	

E: Scandinavia & Europe H: Audio Club K: USA

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C51 ,52			CK45FB1H102K	CERAMIC 1000PF K		
E	1B, 1C		N09-0333-05	TAPPING SCREW (Ø3X12)		
H	1B		N29-0067-05	PUSH RIVET (Ø3.5X4.5)		
CP1 ,2			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R19 ,20			RD14AB2E621J	FL-PROOF RD 620 J 1/4W		
R33 ,34		*	RD14AB2E132J	FL-PROOF RD 1.3K J 1/4W		
R35 -38			RD14AB2E470J	FL-PROOF RD 47 J 1/4W		
R39 -42			RD14AB2E221J	FL-PROOF RD 220 J 1/4W		
R43 -46			RD14AB2E2R2J	FL-PROOF RD 2.2 J 1/4W		
R59 ,60			RD14AB2E221J	FL-PROOF RD 220 J 1/4W		
R71 ,72			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R85			RS14KB3D122J	FL-PROOF RS 1.2K J 2W		
R85		*	RS14KB3D152J	FL-PROOF RS 1.5K J 2W	XTE KPUM	
R85		*	RS14KB3D152J	FL-PROOF RS 1.5K J 2W	UE	
R93 ,94		*	RS14KB3D271J	FL-PROOF RS 270 J 2W		
R95			RS14KB3D680J	FL-PROOF RS 68 J 2W		
R96			RS14KB3D820J	FL-PROOF RS 82 J 2W		
R99		*	RS14KB3A822J	FL-PROOF RS 8.2K J 1W		
R103		*	RS14KB3A822J	FL-PROOF RS 8.2K J 1W		
R105,106		*	RD14AB2E182J	FL-PROOF RD 1.8K J 1/4W		
R107,108		*	RD14AB2E152J	FL-PROOF RD 1.5K J 1/4W		
R111			RD14AB2E220J	FL-PROOF RD 22 J 1/4W		
R121			RD14GB2E220J	FL-PROOF RD 22 J 1/4W		
R122			RD14AB2E220J	FL-PROOF RD 22 J 1/4W		
VR1 ,2		*	R12-0094-05	TRIMMING POT. (470) IDLING		
K1	1B		S51-2058-05	MAGNETIC RELAY		
D3 ,4			1S5133	DIODE		
D3 ,4			1S1555	DIODE		
D3 ,4			1S2076	DIODE		
D5 ,6			RD18E(B)	ZENER DIODE		
D7 ,8			1S2076A	DIODE		
D9 ,10		*	RD8.2E(B)	ZENER DIODE		
D11 ,12			1S2076A	DIODE		
D14 -16			1S2076A	DIODE		
D17			DSM1A1	DIODE		
D24			DSM1A1	DIODE		
D25 -32			S3V20	DIODE		
D34			1S2076A	DIODE		
D35			RD24E(B)	ZENER DIODE		
D36 ,37			TF620M	SCR		
D39 ,40			RD16E(B)	ZENER DIODE		
D41 ,42			RD18E(B)	ZENER DIODE		
IC1			UPC1237H	IC (PROTECTION)		
Q1 -8			2SC2320(E,F)	TRANSISTOR		
Q1 -8			2SC945(A)(Q,P)	TRANSISTOR		
Q9 ,10			2SA733(A)(Q,P)	TRANSISTOR		
Q9 ,10			2SA999(E,F)	TRANSISTOR		
Q11 ,12			2SA1123(Q,R)	TRANSISTOR		
Q13 ,14			2SC2590(Q,R)	TRANSISTOR		
Q13 ,14			2SC2591(Q,R)	TRANSISTOR	XTE KPUM UE	
Q13 ,14			2SC2591(Q,R)	TRANSISTOR		
Q15 ,16			2SA1110(Q,R)	TRANSISTOR	XTE	

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

S: South Africa

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
—		*	H01-5344-04	ITEM CARTON CASE	T	
—		*	H10-1788-04	POLYSTYRENE FOAMED FIXTURE		
—		*	H10-1812-02	POLYSTYRENE FOAMED FIXTURE		
—		*	H10-1813-02	POLYSTYRENE FOAMED FIXTURE		
—			H25-0223-04	PROTECTION BAG (750X350)		
—			H25-0232-04	PROTECTION BAG (235X350)		
17	2B, 2C		J02-0161-04	FOOT		
18	2B		J19-0515-05	UNIT HOLDER		
19	2A, 2B		J21-3326-05	JACK MOUNTING HARDWARE (PHONES)		
20	1C		J42-0083-05	POWER CORD BUSHING		
—			J61-0307-05	WIRE BAND		
24	2A		K27-1264-04	KNOB (BUTTON) METER RANGE		
25	2A		K27-1304-04	KNOB (BUTTON) SPEAKERS A/B		
26	2A		K29-2001-04	KNOB ASSY (BUTTON) POWER		
27	2A	*	K29-2020-04	KNOB VOLUME		
28	2A	*	K29-2016-04	KNOB BASS, TREBLE, BALANCE		
33	1B	*	L01-3961-05	POWER TRANSFORMER	KP	
33	1B	*	L01-3962-05	POWER TRANSFORMER	XT	
33	1B	*	L01-3965-05	POWER TRANSFORMER	UMUE	
33	1B	*	L01-3967-05	POWER TRANSFORMER	E	
37	1C		N08-0128-35	BINDING POST (GND)		
△ S1	1A		S40-1073-05	PUSH SWITCH (POWER)		
△ S2	1B		S31-2083-05	SLIDE SWITCH (POWER TYPE)	UMUE	
POWER SUPPLY (X00-2300-11)						
41	1B		J13-0041-05	FUSE CLIP	KP	
41	1B		J13-0041-05	FUSE CLIP	UMUE	
41	1B		J13-0054-05	FUSE CLIP	XTE	
POWER AMP (X07-2210-10)						
C1 ,2			CE04FW1H010M	ELECTRO 1.0UF	50WV	
C3 ,4			CC45FSL1H221J	CERAMIC 220PF	J	
C5 ,6			CE04FW1A101M	ELECTRO 100UF	10WV	
C7 ,8			CC45FSL1H080D	CERAMIC 8.0PF	D	
C9 ,10			CF92FV1H682J	MF 6800PF	J	
C11 ,12			CC45FSL1H030C	CERAMIC 3.0PF	C	
C13 ,14			CC45FSL1H270J	CERAMIC 27PF	J	
C15 ,16			CE04FW1H330M	ELECTRO 33UF	50WV	
C17 ,18			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C19 ,20			CE04FW1H010M	ELECTRO 1.0UF	50WV	
C21 ,22			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C23 ,26			CF92FV1H104J	MF 0.10UF	J	
C27		*	CE04FW2A470M	ELECTRO 47UF	100WV	
C29 ,30			CE04FW1E470M	ELECTRO 47UF	25WV	
C33			CE04FW1E470M	ELECTRO 47UF	25WV	
C34 ,35		*	C90-1294-05	ELECTRO 7500UF	63WV	XTE
C34 ,35		*	C90-1318-05	ELECTRO 7500	80WV	KPUM
C34 ,35		*	C90-1318-05	ELECTRO 7500	80WV	UE
C36			CE04HW1A220M	NP-ELEC 22UF	10WV	
C37			CE04FW1V4R7M	ELECTRO 4.7UF	35WV	
C38			CE04FW1H330M	ELECTRO 33UF	50WV	
C42 ,45			CK45FE2H682P	CERAMIC 6800PF	P	
C46			CE04FW1J100M	ELECTRO 10UF	63WV	
C47 ,48			CC45FSL1H101J	CERAMIC 100PF	J	XTE
C49			CE04FW1H010M	ELECTRO 1.0UF	50WV	

E: Scandinavia & Europe H: Audio Club K: USA P: Canada

S: South Africa T: England U: PX (Far East, Hawaii)

UE: AAFES (Europe) X: Australia M: Other Areas

△ indicates safety critical components.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C79 ,80 C81 ,82			CE04FW1V471M CK45FB1H471K	ELECTRO 470UF 35WV CERAMIC 470PF K		
45 49 J1 J2 ,3	1B 1C 1C 1C	*	E11-0156-05 E20-0822-05 E13-0223-05 E13-0818-05	PHONE JACK (3P) PHONES LOCK TERMINAL BOARD(8P) PHONE JACK (2P) PHONE PHONE JACK (8P) INPUT,TAPE 1/2		
L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL		
R93 ,94 R95 ,96 R98 R101-104 VR1			RS14DB3A100J RS14DB3D561J * RS14DB3D560J RD14AB2E221J R06-5131-05	FL-PROOF RS 10 J 1W FL-PROOF RS 560 J 2W FL-PROOF RS 56 J 2W FL-PROOF RD 220 J 1/4W POTENTIOMETER(100KX2)VOLUME		
VR2 VR3 ,4	1A 1A	*	R01-5051-05 R06-3049-05	POTENTIOMETER(200K) BALANCE POTENTIOMETER(10KX2) TREB,BASS		
S1 S2 S3 S4	2C 2C 1B 2C	* * * *	S42-5041-05 S42-5042-05 S42-2110-05 S40-2323-05	MULTI-PUSH SW (5 KEY)INPUT SEL MULTI-PUSH SW (5 KEY)INPUT SEL MULTI-PUSH SW SPEAKER PUSH SWITCH (METER RANGE)		
D1 -6 D29 -32 D33 -36 D39 IC1			1S2076A DSM1A1 RD16E(B) RD16E(B) AN6556F	DIODE DIODE ZENER DIODE ZENER DIODE IC(8P AMP X2)		
IC1 IC2 Q1 ,2 Q3 ,4 Q5			NJM4558D(A) NJM2041D-D * 2SD637 * 2SB642 2SC2167(Y,G)	IC(8P AMP X2) IC(8P AMP X2) TRANSISTOR TRANSISTOR TRANSISTOR		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
Q15 ,16 Q15 ,16 Q17 ,18 Q17 ,18 Q17 ,18			2SA1111(Q,R) 2SA1111(Q,R) * 2SC2921*5 * 2SC2921*5 * 2SC3284*5	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	KPUM UE KPUM UE XTE	
Q19 ,20 Q19 ,20 Q19 ,20 Q21 ,22 Q23 ,24			* 2SA1215*5 * 2SA1215*5 * 2SA1303*5 2SA992(F,E) 2SC2631(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	KPUM UE XTE	
Q27 Q34 Q35 Q35 Q38			2SC2167(Y,G) 2SA992(F,E) 2SC2320(E,F) 2SC945(A)(Q,P) 2SC2320(E,F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q38 Q39 Q40 Q41 Q43 ,44			2SC945(A)(Q,P) 2SA992(F,E) 2SA954(L,K) 2SC2003(L,K) 2SC945(A)(Q)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
CONTROL (X11-2110-10)						
D7 -28 PL1	2A,2C 2A		B30-0431-05 B30-0284-05	LED(LN21CPH)PWR,TAPE MONI ETC. LAMP(12V 0.11A)		
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			CE04FW1E100M CE04FW1C470M CC45FSL1H101J CF92FV1H123J CF92FV1H332J	ELECTRO 10UF 25WV ELECTRO 47UF 16WV CERAMIC 100PF J MF 0.012UF J MF 3300PF J		
C11 ,12 C13 ,14 C15 ,16 C17 ,18 C19 ,20			CE04FW1H2R2M CF92FV1H102J CE04FW1E470M CK45FF1H103Z CE04FW1H0R1M	ELECTRO 2.2UF 50WV MF 1000PF J ELECTRO 47UF 25WV CERAMIC 0.010UF Z ELECTRO 0.1UF 50WV		
C21 -24 C25 C26 C27 ,28 C29 -32			CF92FV1H333J CE04FW1H010M CE04FW1H010M CC45FSL1H150J CF92FV1H334J	MF 0.033UF J ELECTRO 1.0UF 50WV ELECTRO 1.0UF 50WV CERAMIC 15PF J MF 0.33UF J		
C33 C34 ,35 C36 C37 -40 C41 ,42			CE04FW1E100M CE04FW1E100M CE04FW1E100M CF92FV1H223J CE04FW1E100M	ELECTRO 10UF 25WV ELECTRO 10UF 25WV ELECTRO 10UF 25WV MF 0.022UF J ELECTRO 10UF 25WV		
C43 ,44 C45 ,46 C47 -49 C50 C51 -64			CK45FF1H103Z CE04FW1HR22M CE04FW1H010M CK45FF1H472Z CC45FSL1H121J	CERAMIC 0.010UF Z ELECTRO 0.22UF 50WV ELECTRO 1.0UF 50WV CERAMIC 4700PF Z CERAMIC 120PF J	XTE	
C65 ,66 C67 ,68 C69 ,70 C73 C74			CK45FB1H222K CE04FW1E221M CE04FW1E470M CK45FF1H103Z CE04FW1E470M	CERAMIC 2200PF K ELECTRO 220UF 25WV ELECTRO 47UF 25WV CERAMIC 0.010UF Z ELECTRO 47UF 25WV	XTE	
C75 -78			CF92FV1H332J	MF 3300PF J	XTE	

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SPECIFICATION

EIA

Power Amplifier Section

Power Output

125 watts* per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.05% total harmonic distortion

Both Channels Driven into

8 ohms at 1 kHz 125 W + 125 W (Except USA, Europe and U.K.)

Total Harmonic Distortion

(AUX—SPKR 8 Ω)

at Rated Output,
20 Hz ~ 20,000 Hz 0.05%

at 1/2 Rated Output,
20 Hz ~ 20,000 Hz 0.02%

at 1/2 Rated Output, 1,000 Hz 0.007%

(PHONO—SPKR 8 Ω : at -20 dB VOLUME Level)

at Rated Output, 1,000 Hz 0.02%

Intermodulation Distortion

(60 Hz:7 kHz = 4:1) 0.02% at rated power
into 8 ohms

Damping Factor 20 (1,000 Hz into 8 ohms)

Frequency Response 10 Hz to 100 kHz,
+0 dB, -3 dB

Input Sensitivity/Impedance

Phono MM 2.5 mV/47 k ohms

TUNER, AUX., TAPE PLAY 150 mV/33 k ohms

Signal-to-Noise Ratio (IHF-A)

Phono MM 73 dB for 2.5 mV input

Phono MM 79 dB for 5.0 mV input

TUNER, AUX., TAPE PLAY 100 dB

Maximum Input Level for Phono

MM 140 mV (RMS), T.H.D. 0.05%
at 1 kHz

Output Level/Impedance

TAPE REC (Pin) 150 mV/3.3 k ohms

Frequency Response for Phono RIAA standard curve ± 0.3 dB
(30 Hz to 20,000 Hz)

Tone Control

Bass ± 10 dB at 100 Hz

Treble ± 8 dB at 10 kHz

Loudness Control

(at -30 dB VOLUME Level) +8 dB at 100 Hz

Subsonic Filter 18 Hz, 6 dB/oct.

General

Power Consumption 4.1 A (USA and Canada : UL and
CSA)

AC Outlets 230 W (Others)
Switched 2, Unswitched 1
(Except some countries)

Dimensions W: 420 mm (16-9/16")
H: 109 mm (4-5/16")
D: 280 mm (11")

Weight (Net) 8.5 kg (18.7 lb)

* Measured pursuant to Federal Trade Commission's Trade Regulation
rule on Power Output Claims for Amplifier in U.S.A.

IEC/NF

European and U.K. models

Power Amplifier Section

Rated Power Output

1 kHz, 4 ohms 90 W + 90 W

4 ohms at 60 Hz to 12.5 kHz

no more than 0.7% THD (IEC/NF) 90 W + 90 W

8 ohms at 60 Hz to 12.5 kHz

no more than 0.7% THD (IEC/NF) 80 W + 80 W

Total Harmonic Distortion

Rated Power Output into 8 ohms 0.05%

Intermodulation Distortion 0.02%

Frequency Response 10 Hz ~ 100 kHz
+0 dB, -3 dB

S/N Weighted: Rated Output Power (IEC-A)

() = Unweighted at 50 mW (DIN)

Phono MM 73 dB (56 dB)

TUNER, AUX., TAPE PLAY 100 dB (56 dB)

Damping Factor at 8 ohms, 1,000 Hz 20

Input Sensitivity/Impedance

Phono MM 2.5 mV/47 k Ω

TUNER, AUX., TAPE PLAY 150 mV/33 k Ω

Tone Control

Bass 100 Hz ± 10 dB

Treble 10 kHz ± 8 dB

Loudness Control (-30 dB) 8 dB at 100 Hz

Subsonic Filter 18 Hz, 6 dB/oct.

General

Power Consumption

IEC 230 W

Dimensions W: 420 mm

H: 109 mm

D: 280 mm

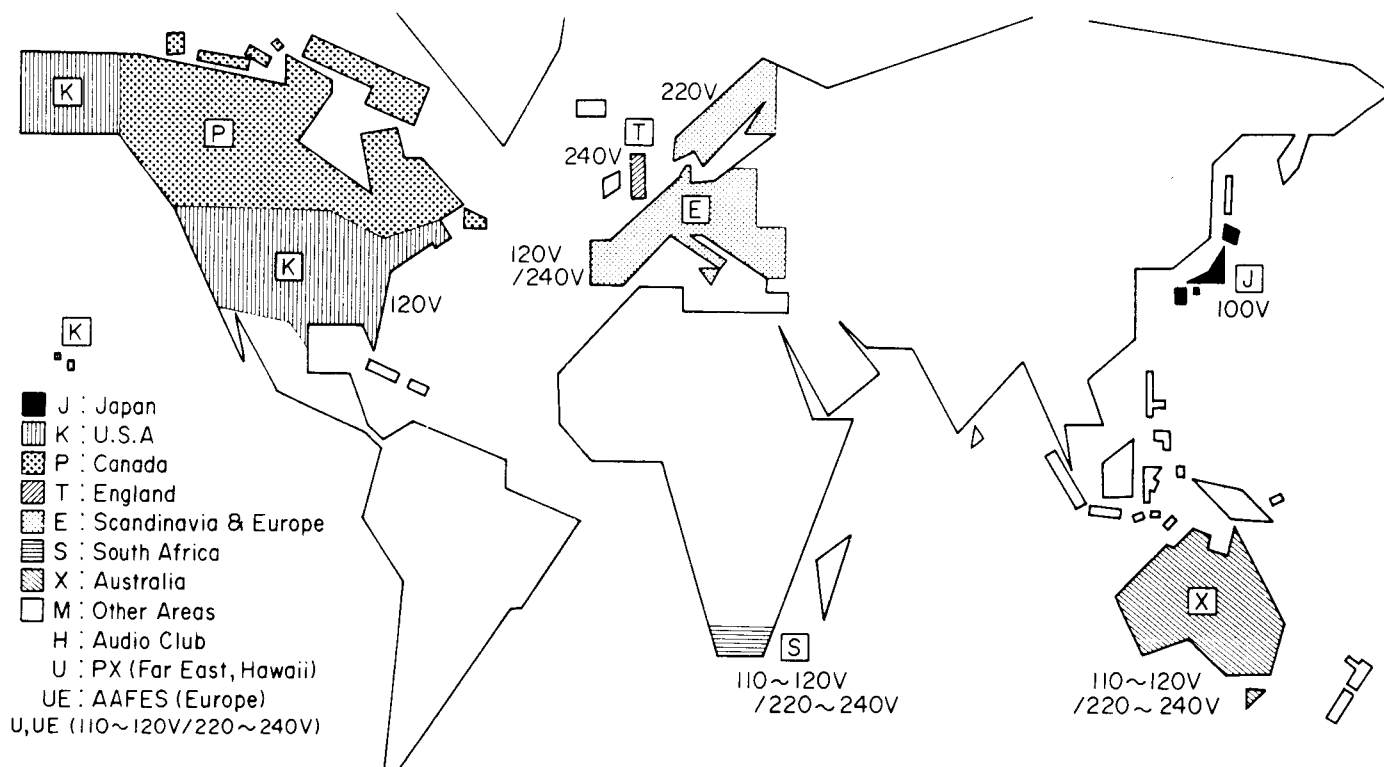
Weight (Net) 8.5 kg

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

WORLD MAP & AREA CODE



Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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